## O P E VOIO SE TRANSPIRE A

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

e application of:

Group Art Unit:

Unknown

Andrew W. Lake

Examiner:

Unknown

Serial No.:

10/630,053

Filed:

July 30, 2003

For:

SYSTEM AND METHOD FOR MONITORING THE

MECHANICAL CONDITION OF A RECIPROCATING

COMPRESSOR

Attorney Docket No.: LYON 0173 PUS

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## **INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents U.S. Patent & Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and § 1.97-1.98, the references listed and identified on the attached Form PTO/SB08A are being submitted herewith for consideration by the Examiner.

Applicants also wish to bring to the Examiner's attention that more than one year prior to the actual filing date of the present application, the assignee of the present invention, and agents of the assignee, used the following monitoring system on equipment that was used to produce material that was sold to customers. A tensile strain gage was placed on a tie-rod member of a compound cylinder of a reciprocating compressor. The tensile strain

## CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8

I hereby certify that this paper, including all enclosures referred to herein, is being deposited with the United States Postal Service as first-class mail, postage pre-paid, in an envelope addressed to: Commissioner for Patents, U.S. Patent & Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 on:

November 10, 2003

Date of Deposit

Marc F. Malooley
Name of Person Signing

Jane 7. Moster

of the tie-rod was measured and used to generate a tensile strain profile, which was used as the basis of a pressure profile. Vibrations of the compound cylinder were measured and correlated to the pressure profile.

While this Statement is being filed in compliance with the duty of disclosure, citation of the attached references is not to be construed as an admission that any of the reference(s) are "material" as defined under 37 C.F.R. § 1.56(b).

If the filing date of this application is on or before June 30, 2003, a copy of each reference listed on the attached Form PTO/SB08A is included herewith. If this application was filed after June 30, 2003, copies of any cited U.S. patent/application references have not been included. Consideration and entry into the record of these references is respectfully requested.

Respectfully submitted,

Andrew W. Lake

Marc F. Malooley

Reg. No. 50,624

Attorney/Agent for Applicant

Date: November 10, 2003

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PTO/SB/08A (10-96) [MODIFIED] Approved for use through 10/31/99. OMB 0651-0031

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Substitute fo	or Form 1449A/PTO			Complete if Known		
				Application Number	10/630,053	
WFO	RMATION D	ISC	LOSURE	Filing Date	July 30, 2003	
STATEMENT BY APPLICANT				First Named Inventor	Andrew W. Lake	
(A)				Group Art Unit	Unknown	
Theet	(use as many sheets	as ne	ecessary)	Examiner Name	Unknown	
eneet	1	of	1	Attorney Docket Number	LYON 0173 PUS	

U.S. PATENT DOCUMENTS							
Examiner Initials	Cite No.1	U.S. PATENT DOCUMENT  Kind Code <sup>2</sup> Number (if known)		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		6,494,343		McManus et al.	12-17-2002		
		5,882,384		Tom et al.	03-16-1999		
		4,456,963		Wiggins	06-26-1984		
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FOREIGN PATENT DOCUMENTS										
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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.